

INDEX TO VOLUME 83

SUBJECTS

	PAGE
<i>A</i> II in the Spectra of B-Type Stars. <i>M. Nicolet</i>	178
Absorption-Line Intensities in B-Type Stars. <i>E. G. Williams</i>	279
Absorption Lines, A Note on the Formation of Stellar. <i>P. Swings and Otto Struve</i>	238
Aluminizing of Large Telescope Mirrors, The Evaporation Process and Its Application to the. <i>John Strong</i>	401
S Andromedae, On the Spectrum of the Supernova. <i>Cecilia Payne Gaposchkin</i>	245
Arcturus, The Spectrum of. <i>Sidney G. Hacker</i>	140
α Bootis, Ultra-Violet Stellar Spectra with Aluminum-coated Reflectors. IV: The Spectrum of. <i>R. William Shaw</i>	225
Boron Compounds in Stellar Spectra, A Search for the Bands of. <i>P. Swings</i>	177
Boss 6142, New Elements for the Spectroscopic Binary. <i>Roscoe F. Sanford</i>	121
Boss 6142, Stationary Lines in the Spectrum of the Binary Star. <i>Paul W. Merrill</i>	126
B-Type Stars, <i>A</i> II in the Spectra of. <i>M. Nicolet</i>	178
B-Type Stars, A Quantitative Investigation of Spectral Line Intensities in O- and. <i>Paul Rudnick</i>	439
B-Type Stars, Absorption-Line Intensities in. <i>E. G. Williams</i>	279
B-Type Stars, Classification of the. <i>E. G. Williams</i>	305
B-Type Stars, On the Reddening in. <i>Jessie Rudnick</i>	394
γ Cassiopeiae, The Spectral Variations of. <i>C. H. Clemishaw</i>	495
Z Centauri, Note on the Spectrum of. <i>Cecilia Payne Gaposchkin</i>	173
Chromospheric Spectrum, The Intensity of $H\beta$ in the. <i>Philip C. Keenan</i>	47
Classification of the B-Type Stars. <i>E. G. Williams</i>	305
Classification and Luminosity of the n and s Stars of Type A, The. <i>J. A. Hynek</i>	476
Dark Nebulae, Photometric Observations of Some of Barnard's. <i>Otto Struve and C. T. Elvey</i>	162
Darkening at the Limb and Color Index of an Eclipsing Variable (U Cephei). <i>H. O. Rosenberg</i>	67
Developer for Spectrographic Photography, A Useful Fine-Grain. <i>W. W. Morgan</i>	254
Eclipsing Variable (U Cephei) Darkening at the Limb and Color Index of an. <i>H. O. Rosenberg</i>	67
Equilibrium of Stellar Atmospheres under a Temperature Gradient. <i>Rupert Wildt</i>	202

	PAGE
Erratum (The Intensity of the Stellar Absorption Lines. <i>Otto Struve and C. T. Elvey</i>)	66
Erratum (The Photo-electric Color of β Lyrae). <i>C. T. Elvey</i>	508
Formation of Stellar Absorption Lines, A Note on the. <i>P. Swings and Otto Struve</i>	238
Frost, Edwin Brant, 1866-1935. <i>Philip Fox</i>	I
$H\beta$ in the Chromospheric Spectrum, The Intensity of. <i>Philip C. Keenan</i>	47
Infra-red Photometry of Long-Period Variable Stars, The. <i>Charles Hetzler</i>	372
Infra-red Solar Spectrum, A Scale of Wave-Lengths in the. <i>Harold D. Babcock, Charlotte E. Moore, and Wendell P. Hoge</i>	103
Intensities in B-Type Stars, Absorption-Line. <i>E. G. Williams</i>	279
Intensities of Lines in Multiplets, Tables for. <i>Henry Norris Russell</i>	129
Kinematics and World-Structure. II. <i>H. P. Robertson</i>	187
Kinematics and World-Structure. III. <i>H. P. Robertson</i>	257
Magnitudes, The System of the <i>HDC Durchmusterung</i> . <i>A. N. Vyssotsky</i>	216
Magnitudes of the Brightest Extra-galactic Nebulae, Photoelectric. <i>Albert E. Whitford</i>	424
Mass of the Virgo Cluster, The. <i>Sinclair Smith</i>	23
Mercury, Radiation from the Planet. <i>Edison Pettit and Seth B. Nicholson</i>	84
Multiplets, Tables for Intensities of Lines in. <i>Henry Norris Russell</i>	129
Nebulae, Photoelectric Magnitudes of the Brightest Extra-galactic. <i>Albert E. Whitford</i>	424
Nebulae, The Apparent Radial Velocities of 100 Extra-galactic. <i>M. L. Humason</i>	10
Nebulae, Photometric Observations of Some of Barnard's Dark. <i>Otto Struve and C. T. Elvey</i>	162
Normalizing Process, Further Evidence on the Accuracy of Positions from Photographic Plates Treated by the. <i>P. Van de Kamp and A. N. Vyssotsky</i>	391
Nova Herculis, A Possible Interpretation of the Absorption Spectra of. <i>W. W. Morgan</i>	252
Object-Glass for Stellar Spectroscopy, A New f/o.36. <i>R. J. Bracey</i>	179
χ Ophiuchi, The Be Spectrum Variable. <i>C. H. Clemishaw</i>	487
Photometric Observations of Some of Barnard's Dark Nebulae. <i>Otto Struve and C. T. Elvey</i>	162
Positions from Photographic Plates Treated by the Normalizing Process, Further Evidence on the Accuracy of. <i>P. Van de Kamp and A. N. Vyssotsky</i>	391
Prominences, Observations of Radial Motions of. <i>Philip C. Keenan</i>	55
Proper Motion, Investigations on. <i>P. Th. Oosterhoff</i>	340
Radial Motions of Prominences, Observation of. <i>Philip C. Keenan</i>	55
Radial Velocities of 100 Extra-galactic Nebulae, The Apparent. <i>M. L. Humason</i>	10
Radiation from the Planet Mercury. <i>Edison Pettit and Seth B. Nicholson</i>	84
Reddening in B-Type Stars, On the. <i>Jessie Rudnick</i>	394

INDEX TO SUBJECTS

511

PAGE

Reviews:

Danjon, A. and Couder, A. <i>Lunettes et télescopes</i> (W. W. Morgan)	507
Condon, E. U. and Shortley, G. H., <i>The Theory of Atomic Spectra</i> (Donald H. Menzel)	507
<i>Annals of Science.</i> (Pogo, A.)	256
E. A. Milne. <i>Relativity, Gravitation and World Structure</i> (Robertson, H. P.)	61
Abetti G. <i>Il sole</i>	508
Solar Spectrum, A Scale of Wave-Lengths in the Infra-red. <i>Harold D. Babcock, Charlotte E. Moore, and Wendell P. Hoge</i>	103
Spectra with Aluminum-coated Reflectors. IV: The Spectrum of α Bootis, Ultra-Violet Stellar. <i>R. William Shaw</i>	225
Spectra of Early-Type Stars in the Near Ultra-Violet Region, The. <i>P. Swings and M. Désirant</i>	31
Spectra of Several Long-Period Variable Stars at Various Phases of Their Light-Curves, Notes on the. <i>Paul W. Merrill</i>	272
Spectral Line Intensities in O- and B-Type Stars, A Quantitative Investigation of. <i>Paul Rudnick</i>	439
Spectral Variations of γ Cassiopeiae, The. <i>C. H. Cleminshaw</i>	495
Spectroscopic Binaries, The Provisional Elements of 16. <i>William H. Christie</i>	433
Spectroscopic Binary Boss 6142, New Elements for the. <i>Roscoe F. Sanford</i>	121
Spectrum of Arcturus, The. <i>Sidney G. Hacker</i>	140
Spectrum of Z Centauri, Note on the. <i>Cecilia Payne Gaposchkin</i>	173
Spectrum of the Supernova S Andromedae, On the. <i>Cecilia Payne Gaposchkin</i>	245
Spectrum Variable χ Ophiuchi, The Be. <i>C. H. Cleminshaw</i>	487
Stationary Lines in the Spectrum of the Binary Star Boss 6142. <i>Paul W. Merrill</i>	126
Stellar Atmospheres under a Temperature Gradient, Equilibrium of. <i>Rupert Wildt</i>	202
Supernova S Andromedae, On the Spectrum of the. <i>Cecilia Payne Gaposchkin</i>	245
Ultra-Violet Region, The Spectra of Early-Type Stars in the Near. <i>P. Swings and M. Désirant</i>	31
Ultra-Violet Stellar Spectra with Aluminum-coated Reflectors. IV: The Spectrum of α Bootis. <i>R. William Shaw</i>	225
Variable Stars, The Infra-red Photometry of Long-Period. <i>Charles Hetzler</i>	372
Variable Stars at Various Phases of Their Light-Curves, Notes on the Spectra of Several Long-Period. <i>Paul W. Merrill</i>	272
Virgo Cluster, The Mass of the. <i>Sinclair Smith</i>	23
Wave-Length in the Infra-red Solar Spectrum, A Scale of. <i>Harold D. Babcock, Charlotte E. Moore, and Wendell P. Hoge</i>	103

INDEX TO VOLUME 83

AUTHORS

	PAGE
BABCOCK, HAROLD D.; CHARLOTTE E. MOORE; and WENDELL P. HOGE.	
A Scale of Wave-Lengths in the Infra-red Solar Spectrum	103
BRACEY, R. J. A New $f/0.36$ Object-Glass for Stellar Spectroscopy	179
CHRISTIE, WILLIAM H. The Provisional Elements of 16 Spectroscopic Binaries	433
CLEMINSHAW, C. H. The Be Spectrum Variable χ Ophiuchi	487
CLEMINSHAW, C. H. The Spectral Variations of γ Cassiopeiae	495
DÉSIRANT, M., and P. SWINGS. The Spectra of Early-Type Stars in the Near Ultra-Violet Region	31
ELVEY, C. T., and OTTO STRUVE. Photometric Observations of Some of Barnard's Dark Nebulae	162
ELVEY, C. T. Erratum (The Photo-Electric Color of β Lyrae)	508
FOX, PHILIP. Edwin Brant Frost, 1866-1935	1
GAPOSCHKIN, CECILIA PAYNE. Note on the Spectrum of Z Centauri .	173
GAPOSCHKIN, CECILIA PAYNE. On the Spectrum of the Supernova S Andromedae	245
HACKER, SIDNEY G. The Spectrum of Arcturus	140
HETZLER, CHARLES. The Infra-red Photometry of Long-Period Variable Stars	372
HOGE, WENDELL P.; HAROLD D. BABCOCK; CHARLOTTE E. MOORE. A Scale of Wave-Lengths in the Infra-red Solar Spectrum	103
HUMASON, M. L. The Apparent Radial Velocities of 100 Extra-galactic Nebulae	10
HYNEK, J. A. The Classification and Luminosity of the n and s Stars of Type A	476
KEEAN, PHILIP C. The Intensity of $H\beta$ in the Chromospheric Spectrum .	47
KEEAN, PHILIP C. Observations of Radial Motions of Prominences .	55
MENZEL, DONALD H. Review of: <i>The Theory of Atomic Spectra</i> , E. U. Condon and G. H. Shortley	507
MERRILL, PAUL W. Notes on the Spectra of Several Long-Period Variable Stars at Various Phases of Their Light-Curves	272
MERRILL, PAUL W. Stationary Lines in the Spectrum of the Binary Star Boss 6142	126
MOORE, CHARLOTTE E.; HAROLD D. BABCOCK; and WENDELL P. HOGE.	
A Scale of Wave-Lengths in the Infra-red Solar Spectrum	103
MORGAN, W. W. A Possible Interpretation of the Absorption Spectra of Nova Herculis	252

INDEX OF AUTHORS

513

PAGE

MORGAN, W. W. A Useful Fine-Grain Developer for Spectrographic Photography	254
MORGAN, W. W. Review of: <i>Lunettes et télescopes</i> , A. Danjon and A. Couder	507
NICHOLSON, SETH B., and EDISON PETTIT. Radiation from the Planet Mercury	84
NICOLET, M. $A\text{ II}$ in the Spectra of B-Type Stars	178
OOSTERHOFF, P. TH. Investigations on Proper Motion	340
PETTIT, EDISON, and SETH B. NICHOLSON. Radiation from the Planet Mercury	84
POGO, A. Review of: <i>Annals of Science</i>	256
ROBERTSON, H. P. Kinematics and World-Structure. II	187
ROBERTSON, H. P. Kinematics and World-Structure. III	257
ROBERTSON, H. P. Review of: <i>Relativity, Gravitation and World Structure</i> , E. A. Milne	61
ROSENBERG, H. O. Darkening at the Limb and Color Index of an Eclipsing Variable (U Cephei)	67
RUDNICK, JESSIE. On the Reddening in B-Type Stars	394
RUDNICK, PAUL. A Quantitative Investigation of Spectral Line Intensities in O- and B-Type Stars	439
RUSSELL, HENRY NORRIS, Tables for Intensities of Lines in Multiplets	129
SANFORD, ROSCOE F. New Elements for the Spectroscopic Binary Boss 6142	121
SHAW, R. WILLIAM. Ultra-Violet Stellar Spectra with Aluminum-coated Reflectors. IV: The Spectrum of α Bootis	225
SMITH, SINCLAIR. The Mass of the Virgo Cluster	23
STRONG, JOHN. The Evaporation Process and Its Application to the Aluminizing of Large Telescope Mirrors	401
STRUVE, OTTO. Erratum (The Intensities of Stellar Absorption Lines. Otto Struve and C. T. Elvey)	66
STRUVE, OTTO, and C. T. ELVEY. Photometric Observations of Some of Barnard's Dark Nebulae	162
STRUVE, OTTO, and P. SWINGS. A Note on the Formation of Stellar Absorption Lines	238
SWINGS, P. A Search for the Bands of Boron Compounds in Stellar Spectra	177
SWINGS, P., and M. DÉSIRANT. The Spectra of Early-Type Stars in the Near Ultra-Violet Region	31
SWINGS, P., and OTTO STRUVE. A Note on the Formation of Stellar Absorption Lines	238
VAN DE KAMP, P., and A. N. VYSSOTSKY. Further Evidence on the Accuracy of Positions from Photographic Plates Treated by the Normalizing Process	391

INDEX OF AUTHORS

	PAGE
VYSSOTSKY, A. N. The System of the <i>HDC Durchmusterung</i> Magnitudes	216
VYSSOTSKY, A. N., and P. VAN DE KAMP. Further Evidence on the Accuracy of Positions from Photographic Plates Treated by the Normalizing Process	391
WHITFORD, ALBERT E. Photoelectric Magnitudes of the Brightest Extra-galactic Nebulae	424
WILDT, RUPERT. Equilibrium of Stellar Atmospheres under a Temperature Gradient	202
WILLIAMS, E. G. Absorption-Line Intensities in B-Type Stars	279
WILLIAMS, E. G. Classification of the B-Type Stars	305

